

# THREE DIMENSIONAL DISPLAY APPARATUS OF THE INTEGRAL PHOTOGRAPHY TYPE

## ABSTRACT

The invention concerns a three dimensional (3D) display apparatus comprising a passive array (16) of points (a, b, c) and an array (14) representing the image to be displayed, this second array comprising a set of subarrays (A', B', C'). Each subarray is associated with a corresponding point of the passive array, and each point of each subarray contains an information about a point of the 3D image to display. A light ray from a point (A'5) of a subarray to the associated point (a) of the passive array virtually converges to the corresponding point ( $P_1$ ) of the 3D image.

The display comprises means for controlling the position of the 3D image ( $P_1Q_1$ ) with respect to the arrays through the control of the direction of said light rays (A'5a, A'7a).

Preferably, means are provided for controlling the distance (d) between the passive array (16) and the second array (14).

Figure 2.